

**IN THE CLAIMS**

**Please cancel claims 1-24 without prejudice or disclaimer to the subject matter therein.**

**Please add the following new claims:**

25.(New) A method for mounting an optical member on a support substrate, the optical member having a plurality of luminous flux converters formed in a line on a surface of an optical substrate, and the support substrate having at least one positioning groove, said method comprising:

bringing parts of side surfaces of at least two of a plurality of projecting portions into contact with the at least one positioning groove so as to position the optical member, wherein the projecting portions are formed for respective luminous flux converters so as to project, and wherein the plurality of projecting portions include edges that are partially along respective peripheries of the plurality of luminous flux converters;

accommodating other projecting portions of the plurality of projecting portions, other than the at least two of the plurality of projecting portions, in a substrate groove formed in the support substrate, which substrate groove could be a groove of the at least one positioning groove or could be an additional groove, without contacting the other projecting portions with the substrate groove, and filling an adhesive agent between at least one part of side surfaces of the other projecting portions without contact with the substrate groove and the support substrate so as to adhere the optical member to the support substrate.

26.(New) The mounting method of claim 25, wherein the at least two of the plurality of projecting portions are formed at both ends of the line of luminous flux converters.

27.(New) The mounting method of claim 25, wherein the at least one positioning groove comprises the substrate groove such that the at least two of the plurality of projecting portions are in contact with the substrate groove and the other projecting portions are not in contact with the substrate groove.

28.(New) The mounting method of claim 25, wherein the substrate groove, accommodating the other projecting portions of the plurality of projecting portions without contacting the other projecting portions with the substrate groove, is different from at least one said positioning groove.

29.(New) The mounting method of claim 25, wherein the substrate groove is in addition to at least one positioning groove, one of the at least two of the projecting portions having two contact points with one said positioning groove.

30.(New) An optical module comprising:

an optical member having a plurality of luminous flux converters formed in a line on a surface of an optical substrate; and

a support substrate having at least one positioning groove;

wherein at least two parts of side surfaces of at least two of a plurality of projecting portions are in contact with the at least one positioning groove so as to position the optical member, wherein the projecting portions are formed for respective luminous flux converters so as to project, and wherein the plurality of projecting portions include edges that are partially along respective peripheries of the plurality of luminous flux converters; and

wherein other projecting portions of the plurality of projecting portions, other than the at least two of the plurality of projecting portions, are accommodated in a substrate groove formed in the support substrate, which substrate groove could be a groove of the at least one positioning groove or could be an additional groove, without contacting the other projecting portions with the substrate groove, and an adhesive agent is filled between at least one part of side surfaces of the other projecting portions without contact with the substrate groove and the support substrate so as to adhere the optical member to the support substrate.

31.(New) The optical module of claim 30, wherein the at least two of the plurality of projecting portions are formed at both ends of the line of luminous flux converters.

32.(New) The optical module of claim 30, wherein the at least one positioning groove comprises the substrate groove such that the at least two of the plurality of projecting portions are in contact with the substrate groove and the other projecting portions are not in contact with the substrate groove.

33.(New) The optical module of claim 30, wherein the substrate groove, accommodating the other projecting portions of the plurality of projecting portions without contacting the other projecting portions with the substrate groove, is different from at least one said positioning groove.

34.(New) The optical module of claim 30, wherein the substrate groove is in addition to at least one positioning groove, one of the at least two of the projecting portions having two contact points with one said positioning groove.

35.(New) The optical module of claim 30, and further comprising:  
a plurality of optical fibers;  
a plurality of optical devices each having a light-emitting or light receiving function;  
wherein:

the support substrate further includes a plurality of grooves for mounting optical fibers arranged parallel to each other,

the plurality of optical fibers are mounted in the grooves for mounting the plurality of optical fibers, respectively, and

at least one combination is formed by optically coupling one of the optical fibers with one of the optical devices through at least one of the luminous flux converters.

36.(New) The optical module of claim 35, wherein the number of luminous flux converters, the number of optical fibers, and the number of optical devices are equal to each other.

37.(New) The optical module of claim 35, wherein the at least one positioning groove or the substrate groove communicates with at least two of the grooves for mounting the optical fibers.

38.(New) The optical module of claim 35, the at least one positioning groove comprises the substrate groove and the substrate groove communicates with all of the grooves for mounting the optical fibers.

39.(New) The optical module of claim 35, wherein:

the total number of the at least one positioning groove and the substrate groove is at least two grooves;

the number of grooves for mounting optical fibers is at least three;

one groove, of the at least two grooves, has two contact parts of said at least two parts of side surfaces of at least two of a plurality of projecting portions and is different from another groove of the at least two grooves accommodating the other projecting portions without contacting the other projecting portions;

the one groove of the at least two grooves communicates with one of the grooves for mounting the optical fibers; and

the other groove of the at least two grooves communicates with a plurality of grooves for mounting optical fibers.

40.(New) The optical module of claim 35, wherein the optical member includes a plurality of optical members arranged parallel to each other.